

# Rat CD6 / Cluster of Differentiation 6 (His Tag) recombinant protein



Catalog Number: 500412

## General Information

### Protein Construction

A DNA sequence encoding the rat CD6 (Q812A4) (Met1-Asn396) was expressed with a polyhistidine tag at the C-terminus.

### Organism

Rat

### Expression Host

Human Cells

## QC Testing

### Activity

1. Immobilized rat CD6-His at 10 µg/mL (100 µL/well) can bind rat ALCAM-Fc3 (Cat:503801), The EC<sub>50</sub> of rat ALCAM-Fc3 (Cat:503801) is 19.5-45.5 ng/ml.
2. Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells.  
When 8 x 10<sup>4</sup> cells/well are added to ratCD6-His coated plates (10µg/mL, 100 µL/well), approximately 39.2% will adhere after 60 minutes at 37°C.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Leu 18

### Molecular Mass

The recombinant rat CD6 comprises 390 amino acids and predicts a molecular mass of 42.5 kDa. The apparent molecular mass of the recombinant protein is approximately 64-70 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation

- Lyophilized from sterile PBS, pH 7.4.
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

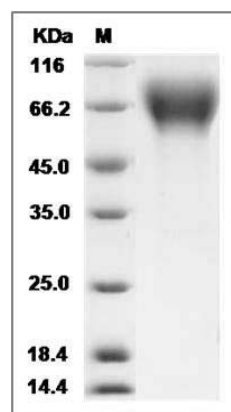
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Rat CD6 / TP120 Protein (His Tag) SDS-PAGE